Prüfinstitut Hoch

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Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT PZ-Hoch-170546-3

for the proof of Fire behaviour according to DIN 4102, part 1

Translation of the German test report – no guarantee for translation of technical terms

company

Vescom B.V.

St. Jozefstraat 20

NL-5753 Deurne

description of samples

white fabric consisting of 100% Polyester (Trevira CS)

name of the material

"Chira 8053"

sampling

by the company itself

content of request

Proof of flammability to classify building materials to class B1

"schwerentflammbar" according to DIN 4102, part 1

validity of test report

30.04.2027

result

The examined product meets the requirements of class B1 for "schwerentflammbare" (hardly flammable) building materials according to DIN 4102, part 1 (May 1998), suspended freely or with distance of >40 mm to same or other plain materials.

This test report includes 4 pages and 3 enclosures.

This test report replaces the test report PZ-Hoch-170546-2 from 08.05.2017. The prolongation of the test report is based on annual surveillance tests.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- "allgemeine bauaufsichtliche Zulassung" (general building inspectorate approval) or by
 "allgemeines bauaufsichtliches Prüfzeugnis" (general building inspectorate certificate) or by
 - "Zustimmung im Einzelfall" (exceptional approval)

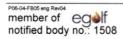
This test report can underlie building supervisory procedures

for regular building products for the prescribed proofs of conformity

- for non regular building products for the needed proofs of applicability.

This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.





1. Description of test material in condition as delivered

PN 25372: "Chira 8053"

white fabric consisting of 100% Polyester (Trevira CS)

There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 44 g/m² thickness: about 0,13 mm

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

2. Preparation of samples

The samples were kept in climate chamber 23/50 until they reached constant weight.

3. Arrangement of samples mounting: freely suspended

#9013 flaming side A in warp direction #9014 flaming side B in weft direction

4. Date of test CW 18 in 2017

5. Results The test has been examined according to DIN 4102 (Mai 1998)

	Measurement Result with the tested specimen								
5	Test number	#9013	#9014						
line	flamed direction flamed side	warp A	weft B						
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1						
2	Maximum flame height above bottom edge of the specimen Time 1)	30 0:02	30 0:02				cm min:s		
4	Burn through / melting Time 1)	0:02	0:02				min:s		
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾ Change of color Time ¹⁾	.J. .J. .J. .J.	.J. .J. .J. .J.	.I. .I. .I. .I.	.J. .J. .J.	.J. .J. .J. .J.	min:s		
7 8 9	Falling of burning droplets Start 1) Extent sporatic falling of burning droplets 2) continuous falling of burning droplets 2)	.I. .I. .I. .I.	.J. .J. .J.	.J. .J. .J.	.f. .f. .f. .f.	.I. .I. .I. .I.	min:s		
10 11 12	Falling of burning droplets Start 1) Extent sporatic falling of burning droplets 2) continuous falling of burning droplets2)	.1. .1. .1.	.1. .1. .1.	.1. .1. .1.	.1. .1. .1.	./. ./. ./.	min:s		
13	Afterflame time at the bottom of the sieve (max.)	./.	./.	./.	./.	.1.	min:s		

	Measurement	Result with the tested specimen							
6	Test number	#9013	#9014						
line	flamed direction flamed side	warp A	weft B						
	Impairment of the burner by dropping or falling material:								
14	Time 1)	./.	./.	./.	./.	./.	min:s		
15 16	Premature end of test Final occurance of burning at the specimen 1) Time of eventually end of test 1)	./.	./.	./.	./.	.I.	min:s		
	Afterflame after end of test	./.	./.	./.	./.	./.	min:s		
17 18 19	Time ¹⁾ Number of specimen Front side of specimen ²⁾	./. ./. ./.	./. ./. ./.	./. ./. ./.	./. ./. ./.	. <i>I</i> . . <i>I</i> . . <i>I</i> .	min:s		
20	Back side of specimen 2)	./.	./.	./.	./.	./.			
21	flame length	./.	./.	./.	./.	./.	cm		
22 23	Afterglow after end of test Time 1) Number of specimen Place of appearance	./. ./. ./. ./.	./. ./. ./. ./.	./. ./. ./. ./.	./. ./. ./. ./.	.J. .J. .J.	min:s		
24 25 26 27	Lower half of the specimen 2) Upper half of the specimen 2) Front side of specimen 2) Back side of specimen 2)	.1. .1. .1. .1. .1.	./. ./. ./.	.J. .J. .J.	./. ./. ./.	./. ./. ./.			
21	Density of smoke	./.	./.	./.	./.	./.			
28 29 30	≤ 400 % * min > 400 % * min ⁴⁾ Diagram: encl. no.	1 ./. 1	1 ./. 2	./. 	./.	./.	% * min % * min		
	Residual lengths: individual value ³⁾		_						
31	Specimen 1 Specimen 2 Specimen 3 Specimen 4	64 72 65 63	60 68 55 72	 	 	 	cm cm cm cm		
32	Average value, individual test 3)	66	64						
33	Photo of specimen in enclosure no.	1	2						
34	Flue gas temperature Maximum of average value	123	125				°C		
35	Time 1)	09:39	09:57				min:s		
36	Diagram: encl. no.	1	2						
37	Remarks: - none -				11				

indication of times: from the begin of testing procedure
checked off if applicable
indication of carrier/foam layer separated in case of fire-proofing agents
very strong development of smoke

6. Explanations concerning the testing procedure

There were no additional tests proceeded because of the residual length of ≥ than 45 cm.

7. Summary of results and additional establishments to Fire Behaviour

line no.	measurement	Result with the tested specimen									
ے ≟	test-no.	#9013	#9014				dim ensi				
	flamed direction flamed side	warp A	weft B								
1	residual length	66	64				cm				
2	max. smoke temperature	123	125				°C				
3	density of smoke - integral	1	1				%min				
4	remarks: none										

According to DIN 4102, part 1, "schwerentflammbare" (hardly flammable) building materials must meet the requirements of class B2.

Pursuant to additional tests in the ignitability apparatus this can be determined (appendix 3).

8. Special remarks

- This report is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or grounds etc. the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions, washing or cleaning with chemicals.
- This test report is not valid, as soon as the fabric is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, im particular private proprietary rights.
- For legal interests only the German original version is relevant.
- In General Building Inspectorates procedures this test report can be based for
 - regular building materials for the required proof of accordance
 - o for not regular building materials for the required proof of applicability

9. Validity

This test report is valid until the mentioned date on page 1. The test report becomes invalid in case the standards on which the tests are based are changed.

Fladungen, 23.05.2022

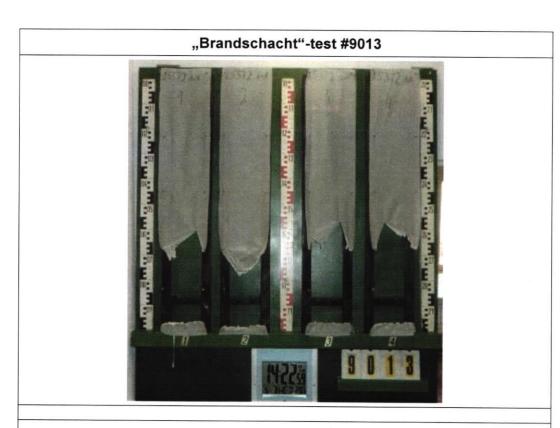
clerk in charge:

(Dipl.-Ing.(FH) Jürgen Hammer)

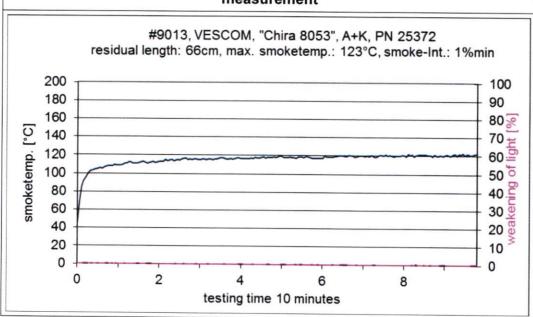
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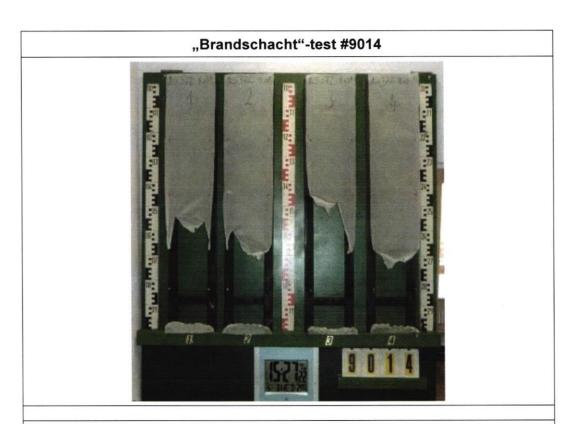
Head of the test laboratory:

(Dipl.-Ing.(FH) Andreas Hoch)

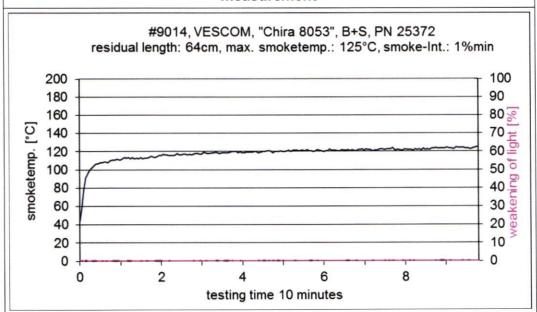


measurement





measurement





Test for normal flammability classifying B2 according to DIN 4102

- 1. <u>Description of test material in condition as delivered</u> look at page 2
- 2. Preparation of samples

Out of the material there have been cut samples for the ignitability apparatus. The samples were kept in a climate 23/50 until they reached constant weight.

3. <u>Arrangement of samples</u> -freely suspended-

Flaming in warp and weft direction / side A and side B

4. Date of test

CW 17 in 2017

5. Results

6	1	2	3	4	_		1 ⊨		
	1		T		5	6	Dim		
							s		
	./.						s		
	1						cm		
	1								
	1			-			s		
	./.						s		
	./.								
little					little				
	-/-						s		
					/		/		

PN 25372: additional tests	edge-test					surface-test							
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Ei.
ignition ¹⁾	1	1	1				1	1	1				s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.				./.	./.	./.				s
max. flame height	1	1	1				1	1	1				cm
time	1	1	1				1	1	1				
self cessation of the flames end of afterflame ¹⁾	1	1	1				1	1	1				s
end of glowing ¹⁾	./.	./.	./.				./.	./.	./.				s
flames were extinguished after ¹⁾	./.	./.	./.				./.	./.	./.				s
smoke development (visual)	little little												
dropping of burning material during 20 s1)	-/-	-/-	-/-				-/-	-/-	-/-				s
Appearance after test: burned out till max. height 1,5cm x width 2,5cm													

¹⁾ time mentioned from the beginning of the test 2) during 20 Sec -/- no appearance -- no information

- 6. Remarks and explanations to the testing procedure none -
- Opinion concerning the dropping of burning material
 The test for normal flammability shows no burning dripping material.